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**From:** Baron, Adam [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=563EF058707D4930868C6CF1E0828A43-BARON, ADAM]  
**Sent:** 9/26/2019 6:31:53 PM  
**To:** Green, Richard [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=80b69be2dc1642fb864b8bf7f1b875b-Green, Richard]; Thurmon, Clarke [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=4ee51ecf20b146d18fb2874c6b0d1b31-Thurmon, Clark]  
**CC:** Contreras, Peter [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=3c7e515833814b74a7ebafcfef8b6322-Contreras, Peter]; Burgess, Karen [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=9085a27e8d724564890f33d47c72d9d1-Burgess, Karen]  
**Subject:** FW: Warm Springs ... SSDWA 1431 EPA Order - Engineering/Asset Management Study

Rick –

Thanks for heading down there to help out with Warm Springs.

Before we move forward on the grant to do a asset management study, let's check with Clarke. I think their may be a

**Ex. 5 AC/DP**

status – I'm not sure.

Maybe others can weigh in as well?



**Adam Baron**

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**From:** Barry Buchanan <Barry@buchananandassociates.com>  
**Sent:** Wednesday, September 25, 2019 5:48 PM  
**To:** Green, Richard <Green.Richard@epa.gov>  
**Cc:** Baron, Adam <Baron.Adam@epa.gov>; Alyssa Macy <alyssa.macy@wstribes.org>; Travis Wells <travis.wells@wstribes.org>; Keith Whisenhunt <keithw@pdgnw.com>  
**Subject:** Warm Springs ... SSDWA 1431 EPA Order - Engineering/Asset Management Study

Rick:

Thank you for speaking with me yesterday at the Warm Springs Funding Summit. I wished to follow up with you re. the opportunity for funding of the Engineering/Asset Management study required by the May 23<sup>rd</sup>, 2019 EPA Order.

If I understood you correctly EPA and the State have a joint funding program available for Asset Management studies, which is what we interpret as one of the requirements of the EPA Warm Springs Order.

It is our intention to undertake (given the funding) a study that would include, but not be limited to:

- 1) The establishment of a Water System Asset Register
- 2) Determination and agreement of Levels of service
- 3) Establishing the State of the Asset judged against the required LoS, specifically the prime failure modes: Capacity, Condition, Compliance, and Efficiency (3CE)
- 4) Determination of the assets' criticality and their associated risk profiles to establish urgency and priority
- 5) Identify appropriate risk management; avoidance, minimization, mitigation strategies
- 6) Determine appropriate Least Life Cycle Cost solutions for the identified issues
- 7) Establish a whole of life Asset Management Plan including CapEx and Opex implementation, continuous improvement, programs.

I would appreciate an opportunity to visit with you or for you to pointed me the right direction to understand the requirements and availability of the study grant.

Please let me know your availability for a discussion in near future.

Kind regards

bb.

Adam ... I spoke briefly with Dan yesterday and he ask that we keep you apprised of anything we do in association with the Warm Springs EPA Order.

He also agreed that now we are being engaged by the WS TRIBES to Program Manage the HUD and BIA funds for the rectification of items at the WTP it would be appropriate for us to be involved in your weekly meeting with Travis and Chico.

Your thoughts?

bb.

**Barry Buchanan, P.E.**

**PRINCIPAL CONSULTANT | BUCHANAN and ASSOCIATES**

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